

Appendix: Redacted Claims

[8. A data tape storage and retrieval system, comprising:
a plurality of storage cells arranged radially around a central point, wherein the plurality of storage cells are configured to receive data storage objects;
a first rotational horizontal beam rotatable around the central point;
a second rotational horizontal beam rotatable around the central point;
a plurality of vertical supports, one of said vertical supports attached to one end of each of said rotational horizontal beams;
a plurality of gripping means configured for gripping data storage objects to be retrieved from said plurality of storage cells; and
means for movably attaching at least one of said gripping means to traverse each of said vertical supports; wherein
each of said rotational horizontal beams is capable of rotation independent of the rotation of the other of said rotational horizontal beams.]

[9. A data storage and retrieval system comprising:
a polygonal array of cells, wherein the polygonal array of cells are inwardly disposed with openings configured to receive data storage units;
a first robot unit, located within the polygonal array of cells, wherein the first robot unit transports a data storage unit to and from the polygonal array of cells; and
a second robot unit, located within the polygonal array of cells, wherein the second robot unit manipulates data storage units placed in the polygonal array of cells independently of the first robot unit.]

[10. The data storage and retrieval system of claim 9, wherein the data storage units are electronic magnetic storage cartridges.]

[11. The data storage and retrieval system of claim 9, wherein the polygonal array of cells is a circular array of cells.]

[12. The data storage and retrieval system of claim 9, further comprising:

collision avoidance means for preventing collisions between the first robot unit and the second robot unit during operation.]

[13. The data storage and retrieval system of claim 9, wherein the first robot unit and the second robot unit both include a hand, wherein the hand is moveable to remove a data storage unit from a cell from the cylindrical array of cells.]

[14. The data storage and retrieval system of claim 9, wherein the polygonal array of cells in the data storage and retrieval system includes a major axis within the polygonal array of cells, wherein the first robot unit and the second robot unit are located along the major axis.]

[15. An apparatus for retrieval of storage units from a library, the apparatus comprising:

 a first center column having a first arm with first and second ends wherein the first end of said first arm is attached to said first center column and said first arm extends substantially radially outward from said first center column;

 a first hand attached to the second end of said first arm for manipulating storage units from the library;

 a second center column having a second arm with first and second ends wherein the first end of the second arm is attached to the second center column and said second arm extends substantially radially outward from said second center column; and

 a second hand attached to the second end of said second arm for manipulating storage units from the library; wherein

 said first arm and said second arm rotate about a same vertical axis of rotation; and

 each arm and hand is independently moveable from the other arm and hand.]

[16. The apparatus of claim 15, wherein each of said hands is moveable longitudinally along a respective one of said arms.]

[17. The apparatus of claim 15, wherein each of said center columns is substantially cylindrically symmetric.]

[18. The apparatus of claim 15, wherein said first center column is axially disposed within said second center column.]

[19. The apparatus of claim 15, wherein the library comprises walls arranged around a central axis and storage units are stored in cells in the walls.]

[20. The apparatus of claim 15, wherein each of said center columns is substantially cylindrical.]

[21. A data tape storage and retrieval system, comprising:
a plurality of storage cells arranged radially around a central point;
a first rotational horizontal beam rotatable around the central point;
a second rotational horizontal beam rotatable around the central point;
a plurality of vertical supports, one of said vertical supports attached to one end of each of said rotational horizontal beams;
a plurality of gripping means for gripping data storage objects to be retrieved from said plurality of storage cells; and
means for movably attaching at least one of said gripping means to traverse each of said vertical supports, wherein each of said rotational horizontal beams is capable of rotation independent of the rotation of the other of said rotational horizontal beams.]